

MIKAYELIAN, A.L.; OSTROVSKIY, V.Yu.

Electroencephalographic observations in aortic commissurotomy by
an open method under hypothermia. Khirurgiya no.9:72-78 '62.

(MIRA 15:10)

1. Iz Instituta eksperimental'noy biologii i meditsiny (dir. -
prof. Ye.N.Meshalkin) Sibirskogo otdeleniya AN SSSR.

(AORTIC VALVE—SURGERY) (HYPOTHERMIA)

(ELECTROENCEPHALOGRAPHY)

KOSHARKO, K.A.; MIKAYELYAN, A.L.

Electrokymographic localization of aortic stenosis. Grudn khir.
4 no.5:46-52 S-0'62 (MIRA 17:3)

1. Iz rentgenologicheskogo otdela Instituta eksperimental'noy
biologii i meditsiny (dir. - prof. Ye.N. Meshalkin) Sibirskogo
otdeleniya AN SSSR. Adres avtorov: Novosibirsk, ul. Vavilova,
dom 2, Institut eksperimental'noy biologii i meditsiny.

MIKROFILM

MIKAYELIAN, A.L.; SEMENOVA, L.A.

Anatomical forms of stenosis of the aortic orifice. Zhur.
eksp. i klin. med. 3 no.1:19-24'63. (MIRA 16:10)

1. Institut eksperimental'noy biologii i meditsiny Sibirskogo
otdeleniya AN SSSR.
(AORTA — DISEASES)

MIKAYELYAN, A.L.; SEMERDZHYAN, V.V.

Hypoxic bradycardia of the heart in artificial blood circulation; an experimental and clinical examination. Zhur. eksp. i klin. med. 3 no.2:25-31'63. (MIRA 16:10)

1. Institut kardiologii i serdechnoy khirurgii AN ArmSSR.
(BLOOD — CIRCULATION, ARTIFICIAL)
(HEART — SURGERY)

MEYERSON, F.Z.; MIKAYELIAN, A.L.; SHENDEROV, S.M.; MARKOVSKAYA, G.I.

Dynamics of stress in the myocardium in compensatory hyperfunction and insufficiency of the heart from overwork.
Zhur. eksp. i klin. med. 3 no.4:13-23 '63. (MIRA 16:12)

1. Institut normal'noy i patologicheskoy fiziologii AMN SSSR
i Institut kardiologii i serdechnoy khirurgii AN Armyanskoy SSR.

MIKAYELIAN, Aleksandr L'vovich; KANDARYAN, K.A., otv. red.; SHTIBEN,
R.A., red. izd-va; GORDYAN, G.L., tekhn. red.

[Surgical treatment of aortal heart defects] Khirurgiches-
skoe lechenie aortal'nykh porokov serdtsa. Erevan, Izd-vo
Akad. nauk Armianskoi SSR, 1963. 453 p. (MIRA 16:6)
(AORTAL VALVE--SURGERY) (HEART--SURGERY)

MIKAYELYAN, Aleksandr L'vovich. Prinimal uchastiv: MEYERSON, F Z.,
~~doctor med. nauk~~ GRIGORYAN, E.A.; KYANDARYAN, K.A.; dots.red.

[Clinical pathophysiological changes in stenosis of the
left atrioventricular opening of the heart and its surgical
correction] Kliniko-patofiziologicheskie izmeneniia pri
suzhenii levogo atrioventrikuliarnogo otverstia serdtsa i
khirurgicheskaya korrektsiia ego. Erevan, Aiazan, 1964.
265 p. (MIRA 18:5)

1. Direktor Instituta kardiologii i serdechnoy khirurgii
AMN SSSR (for Kyandaryan).

^A
MEYERSON, F.Z.; MIKOELIAN, A.L.; MARKOVSKAYA, G.I.; VLASOV, Yu.A.

Myocardium and hemodynamics in hyperfunction and insufficiency of the heart. Report no.2: Decrease in vascular resistance as a factor in economical compensation in diseases of the circulatory system. Biul.eksp.biol. i med. 55 no.1:31-35 Ja'63.

(MLA 16:7)

1. Iz Instituta normal'noy i patologicheskoy fiziologii (dir. deystvitel'nyy chlen AMN SSSR V.V.Parin) AMN SSSR i Instituta eksperimental'noy biologii i meditsiny (dir. - prof. Ye. N. Meshalkin) Sibirskogo otdeleniya AN SSSR. Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Parinym.

(AORTA DISEASES) (BLOOD—CIRCULATION)

(NERVES, CARDIAC)

WATKINS, A.L.; DOLAN, J.C.; ALLEN, N.G.

Disorders of the heart in the USSR. In: *Disorders of the heart*.
or vice of the heart. Iss. M. Am. SSR. Biol. Med. 1960.11:
55-62. L. '64. (P. 18:2)

1. Institut kardiologii i serdtsa. M. SSR.

MIKAYELIAN, A.L.

Immediate results of surgical correction of the aortic defects of the
heart. Vop. pat. i reg. org. krov. i dykh. no.1;213-224 '61.
(MIRA 18:7)

MESHALKIN, I.N.; MIKAYELIAN, A.L.; LEVINSON, Yu.M.

Ruptures of the left auricular appendage and atrium of the heart during
mitral commissurotomies. Vop. pat. i reg. org. krov. i dykh. no.1:257-
263 '61. (MIRA 18:7)

MIKAYELIAN, A.L.; OVRUTSKIY, Ya.S.

Case of removal of hydatids from the heart. Vop. pat. i reg. org. krov.
i dykh. no.1:281-284 '61. (MIRA 18:7)

MANVELYAN, M.G.; SAYADYAN, A.G.; ABRAMYAN, A.A.; MIKAYELYAN, Dzh.A.;
KAPANTSYAN, E.Ye.

Method of decomposing the alkaline calcium hydrosilicate deposit
resulting from the treatment of nepheline rocks by the method of
Ponomarev and Sazhin. Report No. 1. Izv. AN Arm. SSR Khim. nauki
13 no.2/3:117-127 '60. (MIRA 13:10)

1. Institut khimii Sovnarkhoza ArmSSR.
(Calcium silicate)

MIKAYELIAN, D.A., glavnyy vrach (Rostovskaya oblast')

Ol'ga Dmitrievna Cherednikova. Med.sestra 19 no.8:42 Ag '60.

(MIRA 13:7)

(CHEREDNIKOVA, OL'GA DMITRIEVNA)

MIKAYELIAN, D.A.

Rare case of tetanus. Klin.med. 38 no.9:133-134 S '60. (MIRA 13:11)

1. Iz khirurgicheskogo otdeleniya (zav. D.A. Mikayelian) Dubovskoy rayonnoy bol'nitsy. (TETANUS)

MANVELYAN, M.G.; SAYADYAN, A.G.; ABRAMYAN, A.A.; MIKAYELYAN, Dzh.A.;
KAPYANTSYAN, E.Ye.

Decomposition of alkali-calcium precipitates obtained in the
process of treating nephelite rocks by hydrochemical methods.
TSvetomet. 3/4 no.2:56-60 F '61. (MIRA 14:6)
(Hydrometallurgy) (Nephelite)

MAN/ELYAN, M.G.; SAYADYAN, A.G.; ABRAMYAN, A.A.; MIKAYELIAN, D.A.;
MOSINYAN, F.G.; KAPANTSYAN, E.Ye.

Method of decomposing the alkali-calcium precipitate obtained
in the process of treating nepheline rocks by hydrochemical
methods. TSvet. met. 35 no.4:46-49 Ap '62. (MIRA 15:4)
(Nepheline) (Leaching)

ARUTYUNYAN, A.V.; MIKAYELIAN, E.M.

Ammonia, glutamine and protein amide nitrogen content in the
brain following immediate fixation of white rats with liquid
oxygen and their decapitation. Vop. biokhim. moz. 1:113-116 '64.
(MIRA 18:9)

KRMOYAN, T.V.; MIKAYELYAN, G.I.

Adsorption properties of calcium monosilicate. Izv. AN Arm.
SSR. Khim. nauki 11 no.5:307-316 '58. (MIRA 12:1)

1. Nauchno-issledovatel'skiy institut khimii Sovnarkhoza ArmSSR.
(Calcium silicates) (Adsorption)

KRMOYAN, T.V.; MIKAYELIAN, G.I.

Adsorption properties of calcium monosilicate. Trudy Inst.khim.
AN Azerb.SSR 17:27-37 '59. (MIRA 13:4)

1. Institut khimii AN ArmSSR.
(Calcium monsilicate) (Adsorbents)

MANVELYAN, M.G.; MIKAYELIAN, G.I.; OGANESYAN, E.B.; OVSEPYAN, E.B.;
MANUKYAN, N.A.

Recovery of mineral oils with calcium metasilicate. Khim. i
tekh. topl. i masel 8 no.6:33-36 Je '63. (MIRA 16:6)

1. Nauchno-issledovatel'skiy institut khimii Soveta narodnogo
khozyaystva Armyanskoy SSR.

(Oil reclamation)
(Calcium silicates)

~~MIKAYELIAN, L. H.~~

Changes in the anatomical structure of cuttings from Voskeat grape seedlings. Izv. AN Arm. SSR. Biol. i sel'khoz. nauki. 2 no. 1: 33-36 '49. (MLBA 9:8)

1. Institut genetiki i selektsii rasteniy Akademii nauk Armyanskoy SSR.

(VITICULTURE)

MIKAYELIAN, L.N.

Rooting capacity of cuttings from Voskhat grape seedlings. Izv.AN
Arm.SSR,Biol.i sel'khoz.nauki. 2 no.5:495-497 '49. (MLBA 9:8)

1. Institut vinodeliya i vinogradarstva Akademii nauk Armyanskoy SSR.
(ARMENIA--VITICULTURE)

MIKAYELYAN, L.M.

Effect of different fertilizers on the anatomical structure of
year-old grape shoots. Izv.AN Arm.SSR.Biol.i sel'khoz.nauki 7
no.12:79-85 D '54. (MLRA 9:8)

1. Laboratoriya agrokhimii Akademii nauk Arm. SSR.
(Fertilizers and manures) (Grapes) (Botany--Anatomy)

MIKAYELIAN, N.O.

Secretion of butterfat and casein. Izv. AN Arm. SSR. Biol. i sel'khoz.
nauki 10 no.9:113-120 S '57.

1. Institut fiziologii AN Armyanskoy SSR.
(Butterfat) (Casein) (Lactation)

MIKAYELYAN, N. G., Cand Biol Sci -- (diss) "Role of the nervous system in qualitative displacements of secreted milk." Yerevan, 1958. 22 pp; (Academy of Sciences Armenian SSR, Inst of Physiology); 120 copies; price not given; (KL, 22-60, 134)

MIKAYELIAN, H.G.

Function of the mammary gland in sexually immature goats following
denervation. Izv. AN Arm. SSR. Biol. i sel'khoz. nauki 11 no.4:23-32
Ap '58. (MIRA 11:5)

1. Institut fiziologii Akademii nauk Armyanskoy SSR.
(MAMMARY GLANDS--INNERVATION) (GOATS)

MIKAYELYAN, N.G.

Amino acid composition of casein under normal conditions and following denervation of the mammary gland. Dokl. AN Arm. SSR 26 no.1:53-58 '58. (MIRA 11:5)

1. Institut fiziologii Akademii nauk Armyanskoy SSR. Predstavleno M.A. Ter-Karapetyanom.

(MAMMARY GLANDS--INNERVATION)

(CASEIN) (AMINO ACIDS)

MIKAYELYAN, N.G.

Changes in the course of lactation following transection of
the dorsal half of the spinal cord. Izv. AN Arm. SSR. Biol. i
sel'khoz. nauki 12 no.1:49-54 Ja '59. (MIRA 12:2)

1. Institut fiziologii AN Arm. SSR.
(LACTATION) (SPINAL CORD)

17(3); 30(1)
AUTHORS: Karapetyan, S. K., Academician, AS ArmSSR, Mikayelyan, N. G. SOV/20-126-1-55/62

TITLE: The Amino-acid Composition in Egg Proteins Under Different Conditions of Poultry-farming (Aminokislotnyy sostav yaichnykh belkov pri razlichnykh usloviyakh sodержaniya ptits)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 1, pp 200-202 (USSR)

ABSTRACT: The intensive cage-system in the rearing of laying hens applied to a great extent in the USSR as well as abroad, has several advantages compared to the usual pastural system. The question rises however, whether these conditions do not impair the quality of eggs, i.e. the molecular structure of the egg proteins. After many investigations (Refs 1-4) this question can be answered in the negative, though there is a lack of publications on the subject mentioned in the title. After a survey of the components of the white of egg, the yolk as well as of the methods for their determination the authors describe their own method: in order to avoid the possibility of making methodical mistakes, they extracted all components of the white of egg and examined them chromatographically. The protein com-

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The Amino-acid Composition in Egg Proteins Under Different Conditions of Poultry-farming

SCV/20-126-1-55, 62

ponents of the yolk were separately extracted and examined. For the examination of the amino-acid composition, the one-dimensional declining variant was used. A mixture of n-butyl-alcohol, acetic acid and water served as solvent (4:1:5 according to reference 5). In the hydrolysate of the yolk proteins, 18 amino acids were found. The results of analysing the white of eggs layed by hens which were kept in cages and on pastures, are shown on table 2 and in figure 1. The chromatographic examinations show no difference in the composition of amino-acid, neither in the yolk nor in the white of eggs of the two mentioned groups of hens. Consequently it is clear that the keeping of hens in cages does not impair the amino-acid composition of egg proteins. There are 1 figure, 2 tables, and 10 references, 5 of which are Soviet.

ASSOCIATION: Institut fiziologii Akademii nauk ArmSSR (Institute of Physiology of the Academy of Sciences of the Armenian SSR)

SUBMITTED: February 20, 1959
Card 2/2

KARAPETYAN, S.K., akademik; MIKAYELIAN, N.G.

Plasticity of conducting pathways of the spinal cord in birds with regard to neural regulation of their reproductive function. Dokl. AN SSSR 140 no.3:728-730 S '61. (MIRA 14:9)

1. AN Armyanskoy SS (for Karapetyan).
(Ovaries--Innervation) (Spinal cord) (Birds--Anatomy)

KARAPETYAN, S.K.; MIKAYELYAN, N.G.

Some results of research in the field of the physiology of
domestic animals in Soviet Armenia. Iz ist.est.i tekhn. 2:168
'62. (MIRA 18:4)

MIKAYELYAN, N.S.

Role of various regions of the brain in reproductive
functions of mammals. Dokl. AN Arm. SSR no. 473-240 '63.
(MIR 17:8)
1. Mikayelyan, N.S. Dokl. imen. akadem. AN ArmSSR.
Meditsinskaya akademika AN Armyanskoy S.S.S.R. Mikayelyan, N.S.

MIKAYELIAN, N.G.

Effect of gonadotropic and estrogenic hormones on the regenerative
function of the ovaries of birds with removed forebrain. (1965)
AN Arm. SSR 41 no.3.189-192 (1965) (USSR 15.11)

1. Institut fiziologii im. akad. N.A. Urtsova AN ArmSSR.
Submitted March 10, 1965.

MIKAYELYAN, S.

Labor supply of Armenia. Prof.-tekh. obr. 17 no. 12:6-8 D '60.
(MIRA 13:12)

1. Nachal'nik Glavnogo upravleniya professional'no-tekhnicheskogo
obrazovaniya pri Sovete Ministrov Armyanskoy SSR.
(Armenia--Vocational education) .

MIKAYELIAN, S.

Provide the industrial enterprises with qualified specialists. Prom.-
Arm. 5 no.6:5-8 Je '62. (MIRA 15:7)

1. Nachal'nik Glavnogo upravleniya professional'no-tekhnicheskogo
obrazovaniya pri Sovete Ministrov Armyanskoy SSR.
(Armenia—Industrial arts—Study and teaching)

MARKARYAN, A.M.; MIKAYELYAN, S.A.; MIATSKANOV, T.S., professor, zasluzhennyy dok-
tor nauk, zaveduyushchiy.

Echinococciasis of the heart. Sov. med. 17 no.3:37-41 '53. (Russia : :)

1. Fakul'tetskaya terapevticheskaya klinika Yerevanskogo meditsinskogo
instituta. (Heart--Hydatid)

MIKAYELYAN, S. A., Candidate Med Sci (diss) -- "Clinical aspects of Botkin's disease". Yerevan, 1959. 32 pp (Yerevan State Med Inst, Oktemberyan Regional Hospital), 200 copies (KL, No 22, 1959, 122)

SVADZHYAN, P.K., doktor biolog.nauk (Sisianskiy raion, Armyanskoy SSR);
MIKAYELYAN, S.T.; ALAKHVERDYAN, O.G., veterinarnyy vrach
(Sisianskiy rayon, Armyanskogo SSR)

Copper sulfate and tin arsenate in sheep monieziasis. Veterinariia
37 no.7:41-42 J1 '60. (MIRA 16:2)

1. Zaveduyushchiy veterinarno-bakteriologicheskoy laboratoriyey
Sisianskogo rayona, Armyanskoy SSR (for Mikayelyan).
(Armenia—Tapeworms) (Anthelmintics)
(Armenia—Parasites—Sheep)

M. KAYEYAN, V. G., n. 100

Transcribed from the original document of the Ministry of the Interior, Moscow, 1958. The original document is in Russian.

1. M. KAYEYAN, V. G., n. 100. The original document is in Russian.

MIKAYELIAN, V.G., inzh.

Effect of the electrode end on the self adjustment of the
arc in automatic welding under flux of aluminum
proizv. no.9:4-7 1964. MPPA 13-12.

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. Bauman.

MIKAYELIAN, V.G., inzh.

Determining the static characteristics of the arc in automatic
welding of aluminum under flux. Svar.proizv. no.12:5-7 D '64.
(MIRA 18.1)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. Baumana.

ALEKIN, L.Ye.; MIKAYELIAN, V.G.

Effect of conditions of the automatic welding of aluminum on the size of the weld. Avtom.svar. 17 no.1:48-54 Ja '64. (MIRA 17:3)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Bauman.

ALEKIN, L.Ye., MIKAYELYAN, V.G.

Character of the melting process of an electrode wire during
electric welding. Avtom svar. 12 no. 9. 54. 5. '62.

MPA 17 10

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. Bauman.

MIKAYELIAN, V.G., aspirant

Effect of the heating by current of the electrode on the rate of
melting in automatic submerged arc welding of aluminum. Izv. vys.
ucheb. zav.; mashinostr. no.1:205-211 1965. (MIRA 18:5)

L 04659-67 EWP(k)/EWT(m)/T/EWP(v)/EWT(t)/ETI TIP C WW/JD/HM/JG/JV
 ACC NR: AP6014438 (N) SOURCE CODE: UR/0125/65/000/012/0034/0039

AUTHORS: Alekin, L. Ye.; Mikayelyan, V. G.

ORG: MVTU imeni Bauman (MVTU)

TITLE: Influence of the hidden length component of an electric arc on the self-regulation during automatic welding of aluminum

SOURCE: Avtomaticheskaya svarka, no. 12, 1965, 34-39

TOPIC TAGS: aluminum, ~~welding~~, automatic welding, arc welding, welding

ABSTRACT: The influence of the hidden length component of an electric arc on the self-regulation during automatic aluminum welding was investigated. The investigation is based on the theoretical expression derived by N. N. Rykalin (Raschety teplovykh protsessov pri svarke, Mashgiz, 1951). This expression is

$$F_{pr} = \frac{0.24 I_{sv} U_D}{v_{sv}} \cdot \frac{\eta_{pr}}{\gamma S_{pl}},$$

where F_{pr} - cross-sectional area of fused metal, I_{sv} - electrode current, U_D - electrode voltage, v_{sv} - welding rate, η_{pr} - thermal efficiency coefficient, γ - density of material; S_{pl} - heat of fusion. The effect of I_{sv} , U_D and v_{sv} on the

Card 1/2

UDC: 621.791.75:546.621

L 04659-67

ACC NR: AP6014438

depth of fusion h_p , depth of liquid metal, δ_{zh} , and length of hidden arc (ℓ_{sk}) was determined. The experimental results are presented graphically (see Fig. 1).

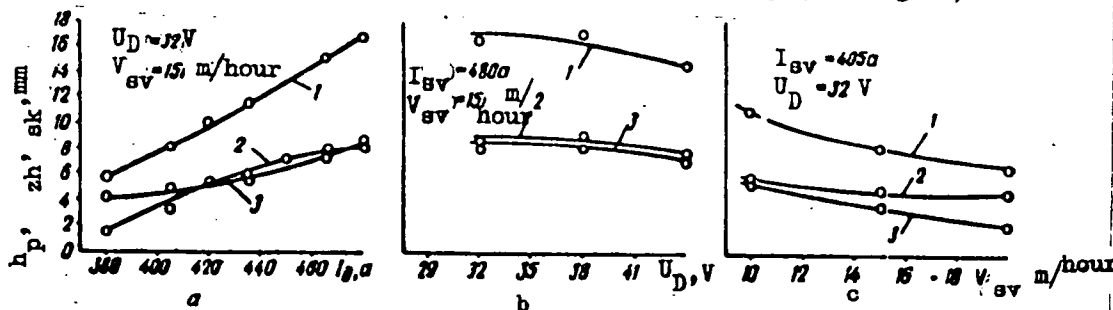


Fig. 1. Dependence of h_p , δ_{zh} , and ℓ_{sk} on the welding parameters. 1 - h_p ; 2 - ℓ_{sk} ; 3 - δ_{zh} .

It is concluded that the nature of the layer of liquid metal influences the dynamic properties of the system. Orig. art. has: 1 table, 5 graphs and 7 equations.

SUB CODE: 11/ SUBM DATE: 29Apr65/ ORIG REF: 012

Card 2/2

KH

MANVELYAN, M.; MANUKYAN, R.; DAVYDOVA, N.; MIKAYELIAN, V.

White opaque glaze with a base of nepheline syenites. From Arm.
: 5 no.12:39-40 D '62. (MIRA 16:2)

1. Institut khimii Soveta narodnogo khozyaystva Armyanskoy SSR.
(Glazes) (Armenia—Syenite)

MIKAYELYAN, V. M.

"The Structure and Growth of the Root System of Apricot Trees
on Various Soils in the Pre-Araks Lowland of the Armerian SSR."
Cand Agr Sci, Inst of Fruit Growing, Acad Sci Armenian SSR, Yerevan.
1955. (KL, No 13, Mar 55)

SC: Sum No. 670, 29 Sep 55 - Survey of Scientific and Technical Dis-
sertations Defended at USSR Higher Educational Institutions (15)

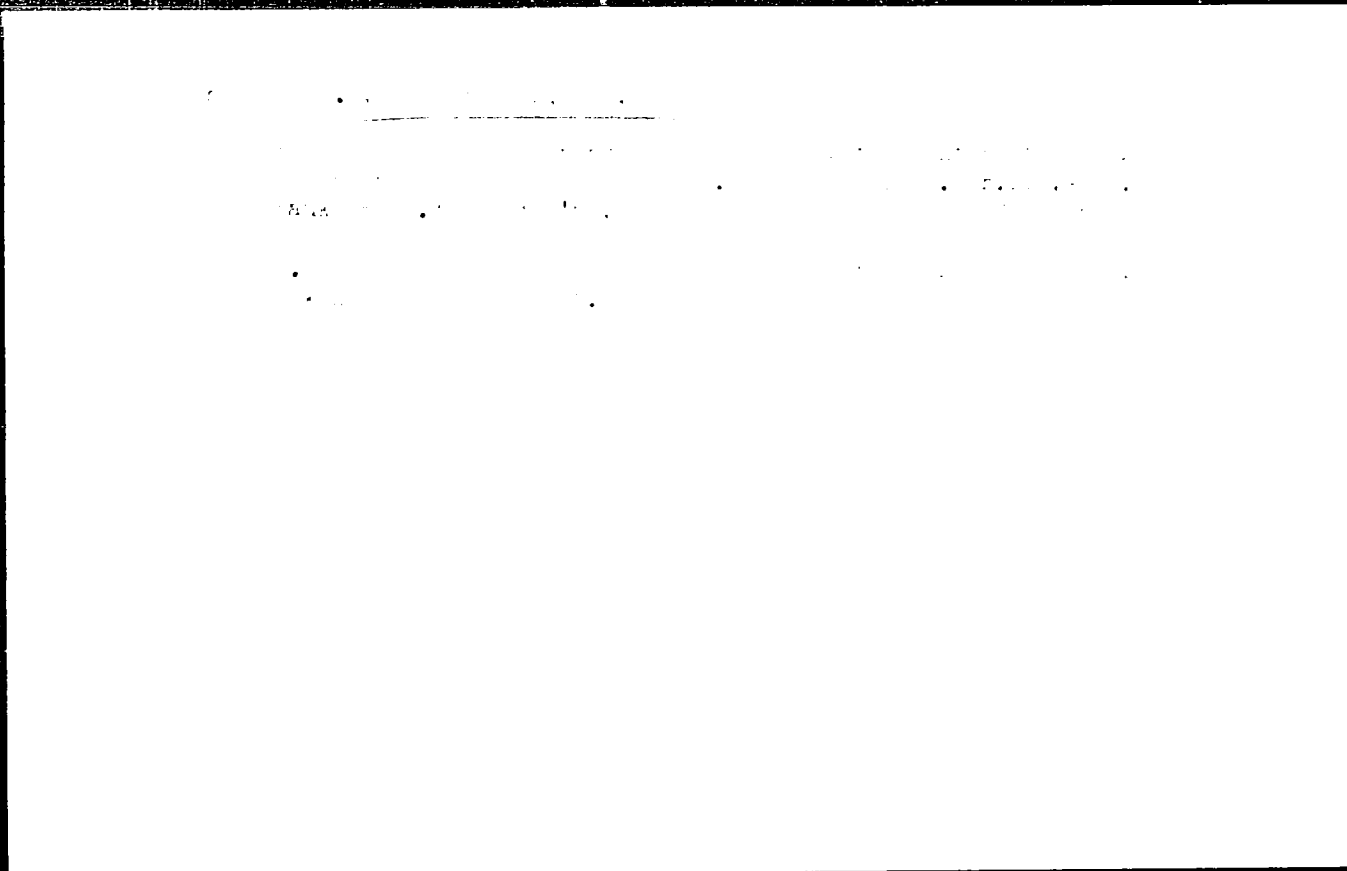
M. KAYELIAN, M.M.

DIRECTOR, DEPARTMENT OF THE ARMY, WASHINGTON, D. C.
 AN APP. FOR THE REG. CHIEF OF THE ARMY, WASHINGTON, D. C.

4. Army's ability to sustain its operations in the event of a major attack.

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R001033910018-5



APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R001033910018-5"

VOLCHOK, I.Z.; LEVICHEVA, M.M.; MIKAYLA, M.I.; SINUSHAS, A.I.

Practices in the use of milled sandy portland cement in the
manufacture of asbestos cement products. Trudy NIIsbesttse-
menta no.17:85-89 '63. (MIRA 17:10,

MIKAYLA, V. V., Cand Geol-Min Sci -- "Structure, lithology,
and paleogeography of the, ⁽¹⁻²⁻¹⁹⁶¹⁾ ~~lake~~ ^{lake} glacial reservoirs of Lithuania
in the post-glacial period and their geochronological significance."
Vil'nyus, 1961. (Min of Higher and Sec Spec Ed
USSR. Vil'nyus State U im V. Kapsukas) (KL, 8-61, 234)

- 112 -

CHOBANYAN, K.S.; MIKAYELIAN, V.V.

Use of the solution to the torsion problem in determining
the center of flexure in a sectional rod. Izv. AN Arm.
SSR. Ser. fiz.-mat. nauk 16 no.4:29-40 '63.

(MIRA 16:2)

1. Institut matematiki i mekhaniki AN Armyanskoy SSR.

MIKAILIENE, E. S.

SCIENCE

PERIODICAL: DARPAI. SERIA 8. STUDY. LITHUANIA. No. 2, 1959

Mikailiene, E. Chemical and physical properties of fine fractions of some clays of Eastern Lithuania. p. 125.

Monthly list of East European Acquisitions (EPAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

MIKAYLENE, Ye.S. [Mikaillene, E.]; SLIZHIS, V.A. [Slizys, V.]

Determining potassium in clay by the volumetric method.
Liet ak darbai B no.4:137-142 '61.

1. Institut khimii i khimicheskoy tekhnologii AN Litovskoy
SSR.

MEMORANDUM FOR THE DIRECTOR
SUBJECT: [Illegible]

On 10/10/61, [Illegible]
Sgt. H. [Illegible]

[Illegible]
[Illegible]

MIKAZAN, P.S.

10 июня
(с 10 до 16 часов)

Ю. Е. Муромов
Исходный метод приближенного решения интегральных
и трансцендентных уравнений
В. Н. Галактион
Исследования по дифференциальной геометрии
О. Г. Бессонов
Свойства функций, зависящих от параметров

10 июня
(с 18 до 22 часов)

Г. Е. Фролов
Физические свойства дифференциальных уравнений
А. В. Бессонов
Методы решения дифференциальных уравнений

В. С. Калашников
В. А. Гусев
Вопросы теории дифференциальных уравнений
С. Е. Бессонов
Аналитические функции для теории дифференциальных
уравнений
В. А. Бессонов
А. В. Бессонов
Свойства функций, зависящих от параметров

11 июня
(с 10 до 16 часов)

В. С. Калашников
Дифференциальные уравнения для функций
В. С. Калашников
Решение дифференциальных уравнений
В. С. Калашников
О свойствах функций, зависящих от параметров

report submitted for the Centennial Meeting of the Scientific Technological Society of
Radio Engineering and Electrical Communications in. A. B. Popov (YUZHIN), Moscow,
6-12 June, 1959

9(9)

SOV/20-128-3-19/58

AUTHOR: Mikazan, P. S.

TITLE: Diffraction of Electromagnetic Waves on the Open End of a Spiral Waveguide

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 3, pp 502-505 (USSR)

ABSTRACT: By the method of functional equations it is possible to solve the problem of the spiral waveguide (which is of interest for aerial manufacture) under certain conditions. The resultant formulas make possible the calculation of the most interesting physical quantities. This article deals with the deduction of these formulas. The above spiral waveguide is assumed to be composed of a band which is wound around a cylinder of the radius a in the form of a helix. This band is assumed to be an ideal, infinitely thin conductor. The cylinder axis agrees with the positive z -axis, and the end of the band is about $z = 0$. With a narrow band, the transverse component of the current on the band ($j_t = 0$) may be neglected, and the following expression results for the longitudinal component:

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$$j_a = f(\varphi - \frac{2\pi z}{d}) \int_C e^{i w z} J(w) dw = \sum_{n=-\infty}^{\infty} f_m e^{i m \varphi} \int_C e^{i w_m z} J(w) dw,$$

where $J(w)$ denotes the unknown function; $f(\varphi)$ the distribution function of the current on the band; d the interval of the helix; f_m the coefficient of the expansion of the function $f(\varphi)$ in a Fourier series; φ the azimuth angle; $w_m = w - 2\pi m/d$.

The edge C primarily runs on the real axis and includes the point $w = -h$, which corresponds to the wave number of the approaching wave. Hertz potentials are employed for the calculation of the electromagnetic field within the entire space:

$$\Pi(z, r) = - \frac{2\pi^2 a}{ck} \sum_{m=-\infty}^{\infty} e^{i m \varphi} \int_C \left\{ \begin{array}{l} I_m(v_m r) H_m(v_m a) \\ I_m(v_m a) H_m(v_m r) \end{array} \right\} F_m(w_m) dw$$

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$$\Pi'(2,r) = - \frac{2i\pi^2 a}{c} \sum_{m=-\infty}^{\infty} e^{im\varphi} \int_c \left(\begin{array}{l} I_m(v_m r) H'_m(v_m a) \\ I'_m(v_m a) H_m(v_m r) \end{array} \right) \frac{G_m(w_m)}{v_m} dw.$$

c denotes light velocity, $k = w/c$ the wave number, I_m and H_m the Bessel- and Hankel function; r the polar coordinate; it further holds: $v_m = \sqrt{k^2 - w_m^2}$.

With the help of these potentials the components j_s , j_t are determined, and the functions F_m and G_m are expressed by $J(w)$.

After some operations, the functional equations

$$\int_c e^{i w z} L(w) J(w) dw = 0 \text{ at } z > 0 \text{ and } \int_c e^{i w z} J(w) dw = 0 \text{ at } z < 0$$

are obtained. The expression for L is written down as well. These functional equations are then solved in the usual manner. Two waves turned to the right with the negative wave numbers

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$-h_1$, $-h_2$ and one wave turned to the left with the positive wave number h_2 can propagate in a certain part of the interval $1/2 < ka - \pi < 3/2$ of a spiral waveguide toward the negative z-axis. If a wave incides upon the open end of the waveguide, three waves are reflected from this end. The method under discussion allows for a calculation of the reflection coefficients and of the radiation field also under different spatial conditions. The author thanks L. A. Vaynshteyn for supervision of this investigation. There are 2 figures and 3 Soviet references.

PRESENTED: May 27, 1959, by M. A. Leontovich, Academician

SUBMITTED: May 26, 1959

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at the Open End of a Helical Waveguide

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An approximate boundary condition is used:

$$\int_{-\pi}^{\pi} E_{\theta}^*(\varphi) d\varphi = 0, \quad (16)$$

integrated at φ and a functional equation:

$$\int_{-\pi}^{\pi} e^{i u \varphi} L(u) J(u) du = 0 \quad \text{for } \varphi \neq 0, \quad (17)$$

is obtained where

$$L(u) = \sum_{m=-\infty}^{\infty} (-1)^m L_m(u), \quad (18)$$

$$L_m(u) = \frac{k}{v_m} \left[-\frac{v_0^2 \sin^2 \theta}{k^2} \gamma_m(w_m) + \cos^2 \theta \Phi_m(w_m) \right]; \quad (19)$$

$$\gamma_m(w_m) = \pi v_m a J_m(v_m a) H_m(v_m a);$$

$$\Phi_m(w_m) = \frac{\pi v_m a}{2} [J_{m-1}(v_m a) H_{m+1}(v_m a) + J_{m+1}(v_m a) H_{m-1}(v_m a)]. \quad (20)$$

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When function $L(w) = 0$, it is the dispersion equation of surface waves in the waveguide. For the excitation of a helical waveguide, when $r < a$, current is present $j_z \neq 0$, therefore:

$$\int_0^{\infty} e^{-uz} J(u) du = 0 \quad \text{for } z > 0 \quad (19)$$

Thus, the diffraction problem of electromagnetic waves at the open end of a helical waveguide is reduced to functional equations (15) and (16) with an unknown function $J(w)$. When the latter is known, E_{ext} and I_{ext} can be found from (12) together with Hertz potential (5) through which all physical quantities needed are expressed. In the latter part of the article, functional equations are solved for different approximations of the function $L(w)$. (2) Limiting case. The simplest case is when $a \rightarrow \infty$ and the helical waveguide becomes a gridlike semiplane. For solution of (15) and (16) it

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and v are assumed to be complex numbers with small disappearing positive imaginary parts. Only in the final formulas the limit ($\text{Im} k \rightarrow 0$) will be used. Limit relations are:

$$\left. \begin{aligned} \lim_{a \rightarrow \infty} \tau_a(u_0) &= 1, \\ \lim_{a \rightarrow 0} \Phi_a(u_0) &= 1 \end{aligned} \right\} \quad (20)$$

permitting a simple solution of dispersion equation:

$$w = \pm h = \pm \frac{k}{\sin \alpha}, \quad (21)$$

where h and $-h$ are wave numbers of the reflected and incident waves, respectively. The solution of functional equations $L(w)$ is written as:

$$L(w) = (u^2 - h^2) L^+(u) L^-(u), \quad (22)$$

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per methods already known. By factorization of function $L(w)$, the expression:

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$$\Sigma(\theta) = \frac{[k^2]^{1/2} k^2 (1 - \cos \theta)}{e(k+h)(h^2 - k^2 \cos^2 \theta)}. \quad (28)$$

Here angle $\vartheta = \pi$ corresponds to the geometric continuation of a gridlike semiplane. (3) Symmetrical Waves. Wave propagation and diffraction in a helical waveguide are described, in approximation, by one term ($m = 0$) of (5) and (16) series. The solution of functional equations is the same as described in Section (2). Factorization by Cauchy integrals of function:

$$r_{10}(u) = \frac{I_{10}(u)}{(u^2 - h^2)^{1/2}}, \quad (31)$$

gives:

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$$r_{10}^{\pm}(u) = \sqrt{r_{10}(u)} e^{\pm \frac{u}{\pi} \int_0^{\infty} \frac{\ln r_{10}(u)}{u^2 - u^2} du} \quad (32)$$

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the modulus of reflection coefficient (26) is obtained, and its values are shown on Fig. 2 by the dotted lines. The curves of Fig. 2 (where $h' = ha$) show a tendency of (35) to the limit value with increase of ka χ .

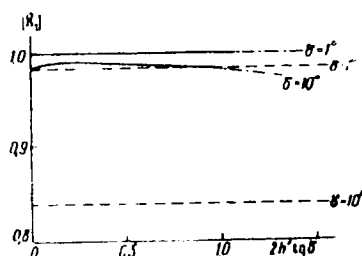


Fig. 2

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Following the method outlined in Section (2), the potentials of the radiation field and field components

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are determined. Using relation (38), the radiation characteristic is found:

$$\Sigma(\theta, \varphi) = \frac{c}{8\pi} (|E_z|^2 + |H_z|^2) R^2, \quad (38)$$

Here, R = distance of observation point from end of helix. In a more convenient form, the characteristic is expressed as:

$$\frac{\Sigma_1(\theta)}{P_1} = \frac{kh |R_1| |\sin[\arg \eta_0(k \cos \theta)]|}{\pi^2 (h^2 - k^2 \cos^2 \theta)} \cdot \frac{2 \cos \theta}{\pi} \int_0^{\pi} \frac{\arg \eta_1(k \cos \alpha) \sin \alpha d\alpha}{\cos^2 \alpha - \cos^2 \theta} \quad (39)$$

where P_1 is the power carried by the incident wave. Its potentials are found from (1). Applying the power equation:

$$P = \frac{c}{8\pi} \oint (E H^*)_{\parallel} ds, \quad (40)$$

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P_1 is obtained. The power of the reflected wave is found analytically. The ratio of the power of the power reflected to the total power is obtained from Eq. (3) and is shown in Fig. 1. The results by full theory:

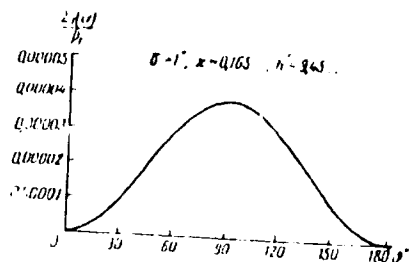


Fig. 3

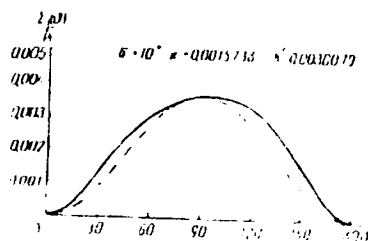


Fig. 4

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When incident wave has a wave number $-h_3$ functions $L^+(w)$ and $L^-(w)$ are:

$$L_{\pm}(u) = e^{\pm i \pi} \gamma_{\pm}(u) (h_1 \pm u) (h_2 \mp u) \quad (15)$$

Power reflection and transformation coefficients for incident wave 3 are given as:

$$\left. \begin{aligned} r_{3,3} &= \frac{(h_3 + h_1)^2 (h_3 - h_2)^2}{(h_1 - h_2)^2 (h_3 + h_2)^2} e^{\frac{4h_3}{\pi} \int_{u^{(1)}}^{u^{(2)}} \frac{\operatorname{arctg} q(u) du}{u^2 - h_3^2}} \\ r_{3,1} &= \sqrt{\gamma_{3,1}} \frac{(h_3 h_1 (h_2 - h_1))}{(h_1^2 - h_2^2) (h_2 + h_1)} e^{\frac{2h_3}{\pi} \int_{u^{(1)}}^{u^{(2)}} \frac{\operatorname{arctg} q(u) du}{u^2 - h_1^2}} \end{aligned} \right\} \quad (16)$$

where

$$u^{(1,2)} = \frac{(1 \pm h_3)}{u} + k \quad (17)$$

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They are shown graphically in Fig. 6 vs. χ .

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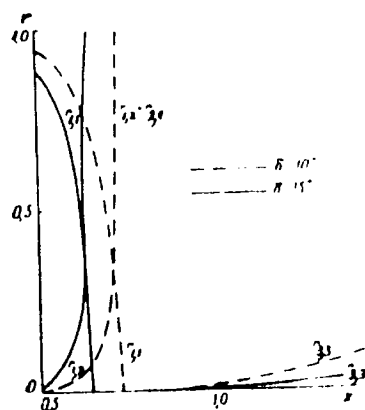


Fig. 1

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Using (16) and relations (3) and (4) computed

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electromagnetic field in the waveguide are expressed as:

$$E_z = \sum_{m=0}^{\infty} B_m J_m(\alpha_m r) \cos(m\theta) \\ H_z = \sum_{m=0}^{\infty} B_m J_m(\alpha_m r) \cos(m\theta) \cos(m\phi) \quad (48)$$

where

$$B_m = \frac{1}{\alpha_m} \left[\frac{J_m(\alpha_m)}{J_m(\alpha_m)} \right] \quad (49)$$

The radiation field is calculated in approximation following Huygens' principle. Assuming that there is no reflection, the current at $0 < z < \infty$ will be as in an infinite helical waveguide with a surface wave. The corresponding functions of the current are:

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$$\left. \begin{aligned} E_m(u_m) &= \frac{\cos b J_m^2}{2\pi(u + b_2)} \\ G_m(u_m) &= \frac{J_m^2}{2\pi(u + b_2)} \sin^2 \frac{m\pi}{a} \cos^2 \frac{m\pi}{a} \end{aligned} \right\} \quad (50)$$

and field

$$\left. \begin{aligned} E_z &= \frac{2\pi x \cos b}{R} e^{i\pi k R} \sum_{m=0}^{\infty} e^{i\pi m(\frac{\pi}{2} - \frac{\pi}{2})} J_m J_m(x \sin \theta) \frac{m}{a} \cos b + b_2 \\ H_z &= \frac{2\pi x A}{R} e^{i\pi k R} \sum_{m=0}^{\infty} e^{i\pi m(\frac{\pi}{2} - \frac{\pi}{2})} J_m J_m(x \sin \theta) \left(\sin^2 \theta \sin b + \frac{m \cos b \cos \theta}{x} \right) \frac{m}{a} \cos b + b_2 \end{aligned} \right\} \quad (51)$$

In (50) and (51) the terms E and H which contain a small $\frac{m}{a}$ in the denominator.

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Therefore, for determination of (48) the main term of (48) and (51) for $(m = -1)$ and for $\eta = 0$ for $m = 1$ are taken. Figures 7 and 8 show the curves for (48) and (51) for $(m = -1)$ and $(m = 1)$.

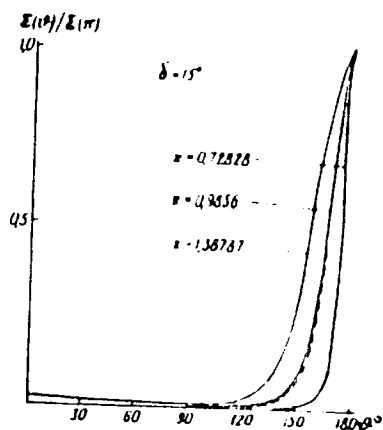


FIG. 7

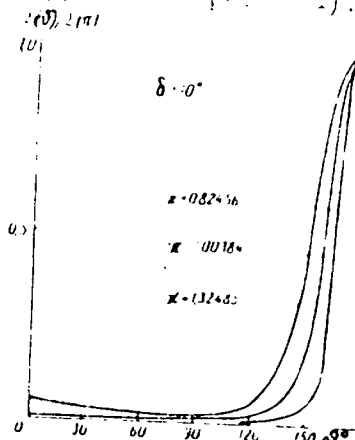


FIG. 8

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Conclusions. The analysis of electromagnetic wave diffraction on the open end of a helical waveguide shows that the symmetrical plane wave is strongly reflected, and for small lead angles δ of the helix the radiation characteristic is proportional to $\sin^2 \delta$. The numerical results of the first space resonance permit analysis of the antenna properties of the helix, and show that the reflection is low for $ka \approx 1$. With increase of δ , the reflection coefficient decreases, and the directivity diagram narrows. The method can be applied also to diffraction on the border of the round waveguide with a full wall and a helical waveguide. L. A. Vaynshteyn helped. There are 3 figures; and 4 Soviet references.

SUBMITTED: July 7, 1977

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AUTHOR:

Mikazan, P. S.

TITLE:

Diffraction of Electromagnetic Waves at the Open
End of a Helical Waveguide

PERIODICAL:

Radiotekhnika i elektronika, 1981, Vol. 26, No. 2,
pp 403-412 (USSR)

ABSTRACT:

Wave diffraction at the open end of a helical waveguide
circular waveguide can be determined with the
help of functional equations. The method is
applied to helical waveguide. The functional
equations are solved. The diffraction of plane
waves with H -polarization is shown in Fig. 1.

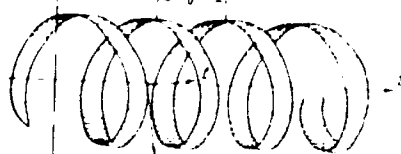


Fig. 1

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Diffraction of Electromagnetic Waves
at the Open End of a Hollow Waveguide

1977, No. 1, p. 10-15
UDC 621.372.4.01

The band is assumed to be ideally conducting, so thin that its thickness can be neglected, and the helix equation of the band is written in cylindrical coordinates (ρ, φ, z) :

$$\rho = a, \quad z = \frac{2\pi}{\lambda} \alpha \geq 0, \quad \alpha \geq 0 \quad (1)$$

where a is radius of the hollow waveguide. The band below $z=0$, the total current I and the current I_0 is determined:

$$I = \int_{-\infty}^{\infty} J_z(\rho, \varphi, z) dz \quad (2)$$

while the current I_0 is expressed as:

$$I_0 = I_0 e^{-i\varphi} = \frac{2\pi}{\lambda} \int_0^{\infty} J_z(\rho, \varphi, z) dz \quad (3)$$

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where $J_z(w)$ is an unknown function, while $\varphi(\varphi)$ is the function of current distribution over the band.

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Circuit C passes essentially along the material axis and encompasses point w -h corresponding to the wave number of incident wave. Function $f(\varphi)$ can be expanded into Fourier series and normalized:

$$f(\varphi) = \sum_{m=-\infty}^{\infty} f_m e^{im\varphi}, \quad \int_0^{\epsilon} f(\varphi) d\varphi = 1, \quad (4)$$

where ϵ is ratio of band width to period of helix multiplied by π . The electromagnetic space field is calculated with the help of Hertz potentials expressed by series:

$$\left. \begin{aligned} \Pi_r &= \sum_{m=-\infty}^{\infty} e^{im\varphi} \Pi_m(z, r), \\ \Pi_z &= \sum_{m=-\infty}^{\infty} e^{im\varphi} \tilde{\Pi}_m(z, r), \end{aligned} \right\} \quad (5)$$

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where

$$\left. \begin{aligned} \Pi_m(z, r) &= -\frac{2\pi^2 a}{k} \int_0^\infty e^{i u_m z} \frac{\{J_m(u_m r) H_m(r_m a)\}}{\{J_m(r_m a) H_m(r_m r)\}} F_m(u_m) du_m \\ \bar{\Pi}_m(z, r) &= -\frac{2\pi^2 a}{k} \int_0^\infty e^{i u_m z} \frac{\{J_m(r_m r) H_m(r_m a)\}}{\{J_m(r_m a) H_m(r_m r)\}} G_m(u_m) du_m \end{aligned} \right\} \quad (6)$$

$$\left. \begin{aligned} u_m &= \sqrt{k^2 - r_m^2} \\ r_m &= \sqrt{k^2 - u_m^2} \end{aligned} \right\} \quad (7)$$

$F_m(w_m)$ and $G_m(w_m)$ are unknown functions; $k = \omega/c$ is wave number; c , speed of light; J_m and H_m , Bessel and Hankel functions. The upper line in (6) should be taken for $r < a$ but the lower for $r > a$. The expressions of electromagnetic field through their potentials are:

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$$\left. \begin{aligned} E_r &= \sum_{m=-\infty}^{\infty} e^{im\varphi} \left(\frac{\partial^2 \Pi_m}{\partial r \partial z} - \frac{mk}{r} \tilde{\Pi}_m \right), \\ E_z &= \sum_{m=-\infty}^{\infty} e^{im\varphi} \left(\frac{im}{r} \frac{\partial \Pi_m}{\partial z} - ik \frac{\partial \tilde{\Pi}_m}{\partial r} \right), \\ E_t &= \sum_{m=-\infty}^{\infty} e^{im\varphi} \left(\frac{\partial^2}{\partial z^2} + k^2 \right) \Pi_m, \\ H_r &= \sum_{m=-\infty}^{\infty} e^{im\varphi} \left(\frac{mk}{r} \Pi_m + \frac{\partial^2 \tilde{\Pi}_m}{\partial r \partial z} \right), \\ H_z &= \sum_{m=-\infty}^{\infty} e^{im\varphi} \left(ik \frac{\partial \Pi_m}{\partial r} + \frac{im}{r} \frac{\partial \tilde{\Pi}_m}{\partial z} \right), \\ H_t &= \sum_{m=-\infty}^{\infty} e^{im\varphi} \left(\frac{\partial^2}{\partial z^2} + k^2 \right) \tilde{\Pi}_m. \end{aligned} \right\} \quad (8)$$

$$\left. \begin{aligned} H_r &= \sum_{m=-\infty}^{\infty} e^{im\varphi} \left(\frac{mk}{r} \Pi_m + \frac{\partial^2 \tilde{\Pi}_m}{\partial r \partial z} \right), \\ H_z &= \sum_{m=-\infty}^{\infty} e^{im\varphi} \left(ik \frac{\partial \Pi_m}{\partial r} + \frac{im}{r} \frac{\partial \tilde{\Pi}_m}{\partial z} \right), \\ H_t &= \sum_{m=-\infty}^{\infty} e^{im\varphi} \left(\frac{\partial^2}{\partial z^2} + k^2 \right) \tilde{\Pi}_m. \end{aligned} \right\} \quad (9)$$

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The current components are expressed as:

$$\left. \begin{aligned} j_z &= \sum_{m=-\infty}^{\infty} e^{im\varphi} \int_0^a e^{i w_m r} G_m(w_m) dw, \\ j_t &= \sum_{m=-\infty}^{\infty} e^{im\varphi} \int_0^a e^{i w_m r} \left[F_m(w_m) + \frac{m w_m}{v_m^2 a} G_m(w_m) \right] dw. \end{aligned} \right\} \quad (10)$$

Substituting these into (11):

$$\left. \begin{aligned} j_t &= j_z \cos \delta + j_z \sin \delta, \\ j_z &= -j_t \sin \delta + j_t \cos \delta, \end{aligned} \right\} \quad (11)$$

where δ is helix lead angle; expressions for j_z and j_t are found, and after setting them equal to (2) and (3), the unknown functions F_m and G_m are expressed through function $J(w)$ (which so far is also unknown):

$$\left. \begin{aligned} F_m(w_m) &= j_m J(w) \left(\sin \delta - \frac{m w_m \cos \delta}{v_m^2 a} \right), \\ G_m(w_m) &= j_m J(w) \cos \delta. \end{aligned} \right\} \quad (12)$$

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AUTHOR: Mikazan, P.S.

TITLE: Diffraction of Electromagnetic Waves at a Joint
Between a Helical and a Continuous Round Waveguide

PERIODICAL: Radiotekhnika i elektronika. 1960. Vol. 5. Nr. 4.
pp 597-604 (USSR)

ABSTRACT: The reflection factors and radiation characteristics of symmetrical waves at the joint between an ordinary round waveguide and a helical waveguide are found by solution of functional equations. Numerical results are obtained for the transmission factor of the H_{01} -wave from a round waveguide with continuous walls to a helical waveguide. The method may also be used to solve diffraction of unsymmetrical waves. The reflection factors obtained for the H_{01} -wave are small and practically the entire power carried by this wave in the circular waveguide with continuous wall passes into the helical waveguide. L.A.Vaynshteyn directed the work. There are 3 figures, 1 table and 4 Soviet references.

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(TUBERCULOSIS, RENAL, compl.

hypertension & adrenal insuff. in renal & adrenal tuberc.,
case report (Hun))

(TUBERCULOSIS, ENDOCRINE, compl.

adrenal insuff. & hypertension in adrenal & renal tuberc.,
case report (Hun))

(HYPERTENSION, etiol. & pathogen.

renal & adrenal tuberc. with adrenal insuff., case report
(Hun))

(ADRENAL GLANDS, dis.

insuff. in adrenal & renal tuberc. & hypertension, case
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(IODINE radioactive)
(RADIOMETRY)